Performance Data Sheet

AVC5538EXN

General Information

Model	AVC5538EXN	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	11700	10900					
	Watts	1410	1450					
	Amps	7.19	6.77					
	Lb/h	152	145					
-10	Btu/h	12900	12100	10700				
	Watts	1560	1620	1630				
	Amps	7.82	7.56	7.32				
	Lb/h	166	160	146				
-5	Btu/h	14500	13600	12200	10400			
	Watts	1700	1780	1820	1810			
	Amps	8.38	8.27	8.17	8.05			
	Lb/h	186	180	168	149			
0	Btu/h	16600	15700	14200	12400	10300		
	Watts	1820	1930	1990	2010	1980		
	Amps	8.86	8.91	8.96	8.97	8.89		
	Lb/h	212	206	194	177	154		
5	Btu/h	19200	18200	16600	14700	12600		
	Watts	1920	2060	2150	2200	2200		
	Amps	9.26	9.47	9.67	9.82	9.87		
	Lb/h	243	238	226	208	186		
10	Btu/h	22300	21100	19400	17400	15100	12800	10500
	Watts	2010	2170	2290	2370	2400	2400	2340
	Amps	9.58	9.96	10.3	10.6	10.8	10.8	10.6
	Lb/h	280	274	262	245	223	198	171
15	Btu/h	25800	24400	22600	20400	18000	15600	13200
	Watts	2090	2270	2420	2530	2590	2620	2600
	Amps	9.82	10.4	10.9	11.3	11.6	11.8	11.7
	Lb/h	322	316	303	286	264	239	213
20	Btu/h	29800	28200	26200	23800	21300	18700	16200
	Watts	2150	2360	2530	2670	2770	2830	2850
	Amps	9.99	10.7	11.4	12.0	12.4	12.7	12.8
	Lb/h	370	362	349	331	309	284	258

25	Btu/h	34300	32500	30200	27600	24800	22000	19300
	Watts	2190	2430	2630	2800	2930	3020	3080
	Amps	10.1	11.0	11.8	12.6	13.2	13.6	13.7
	Lb/h	423	414	399	380	358	333	306
30	Btu/h	39300	37200	34600	31700	28700	25700	22800
	Watts	2220	2480	2720	2910	3080	3200	3300
	Amps	10.1	11.2	12.2	13.1	13.9	14.4	14.7
	Lb/h	481	470	454	434	411	385	358
35	Btu/h	44800	42300	39400	36200	32900	29600	26400
	Watts	2230	2520	2790	3010	3210	3370	3500
	Amps	10.0	11.3	12.5	13.6	14.5	15.1	15.6
	Lb/h	544	532	514	492	467	440	412
40	Btu/h	50700	47800	44500	41000	37400	33800	30300
	Watts	2230	2550	2840	3100	3330	3530	3690
	Amps	9.90	11.4	12.8	14.0	15.0	15.9	16.4
	Lb/h	613	598	578	554	528	500	470
45	Btu/h	57100	53800	50100	46200	42200	38300	34500
	Watts	2220	2560	2880	3170	3440	3670	3870
	Amps	9.69	11.4	12.9	14.3	15.5	16.5	17.2
	Lb/h	686	669	647	621	592	562	531
50	Btu/h	64000	60200	56100	51800	47300	43000	38900
	Watts	2190	2560	2910	3230	3530	3800	4040
	Amps	9.41	11.3	13.0	14.6	16.0	17.1	17.9
	Lb/h	765	744	719	691	660	628	595
55	Btu/h	71300	67100	62500	57700	52800	48000	43500
	Watts	2140	2540	2920	3280	3610	3910	4190
	Amps	9.05	11.1	13.1	14.8	16.4	17.6	18.6
	Lb/h	848	824	796	765	731	697	662

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.168541E+04	-5.782283E+02	1.343491E+01	-1.147232E+02
C2	7.448806E+02	-3.105764E+00	-2.629820E-01	7.216336E+00
C3	9.145040E+02	4.591005E+01	-1.626040E-01	9.387453E+00
C4	1.591070E+01	-3.543223E-01	-2.240182E-03	1.651705E-01
C5	-4.906104E+00	1.633788E-01	5.400009E-03	-3.806622E-02
C6	-8.845583E+00	-1.898377E-01	1.874703E-03	-7.993899E-02
C7	-1.347350E-03	-8.262210E-06	7.786476E-07	-9.564813E-05
C8	-7.843643E-02	6.535887E-04	8.312451E-06	-6.621323E-04
C9	1.829125E-02	1.959670E-03	-1.270308E-05	2.379589E-04
C10	2.292346E-02	-1.237864E-04	-6.962617E-06	1.696995E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature